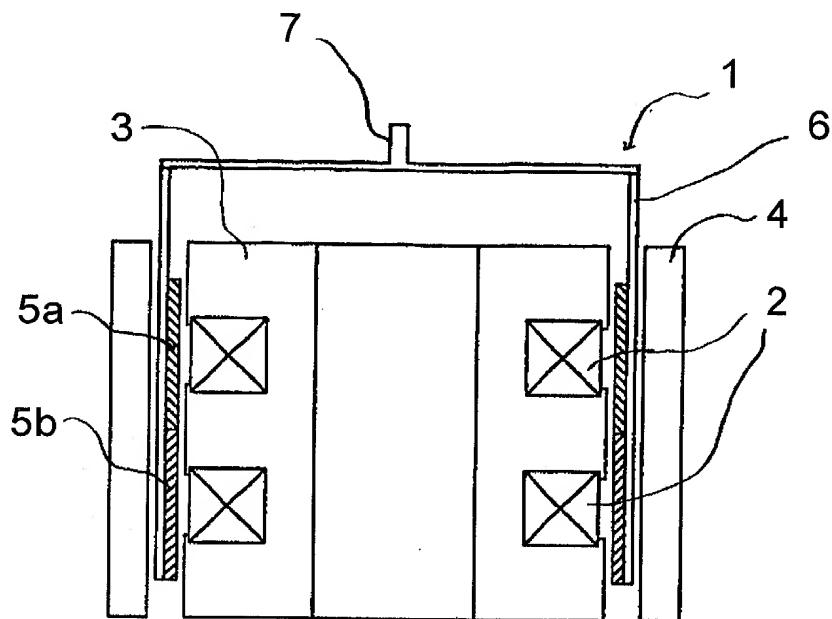
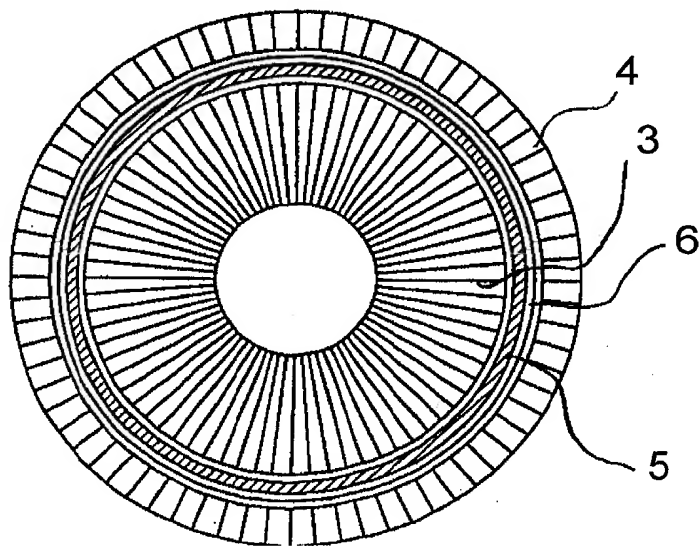


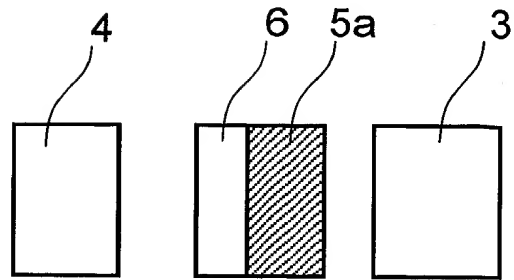
**Fig.1**



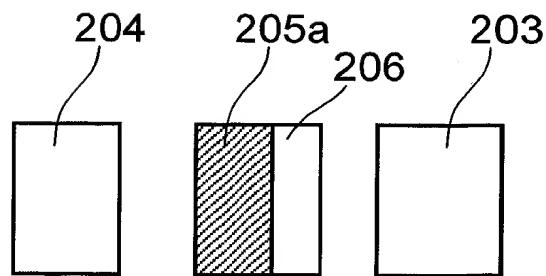
( a )



( b )

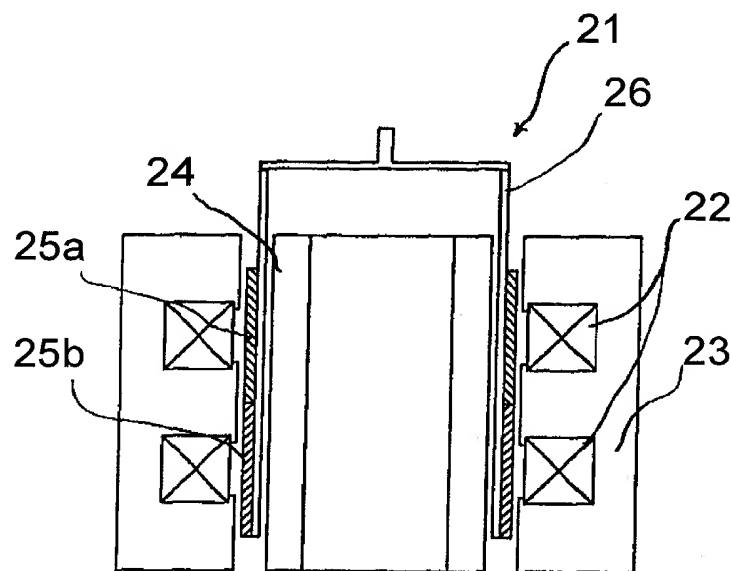
**Fig.2**

( a )

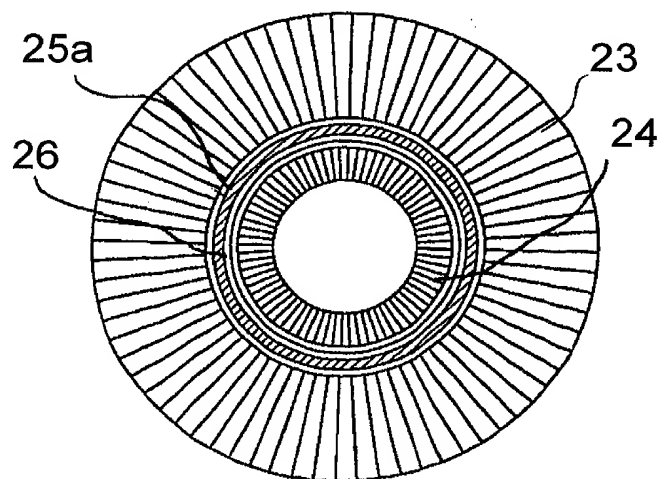


( b )

**Fig.3**

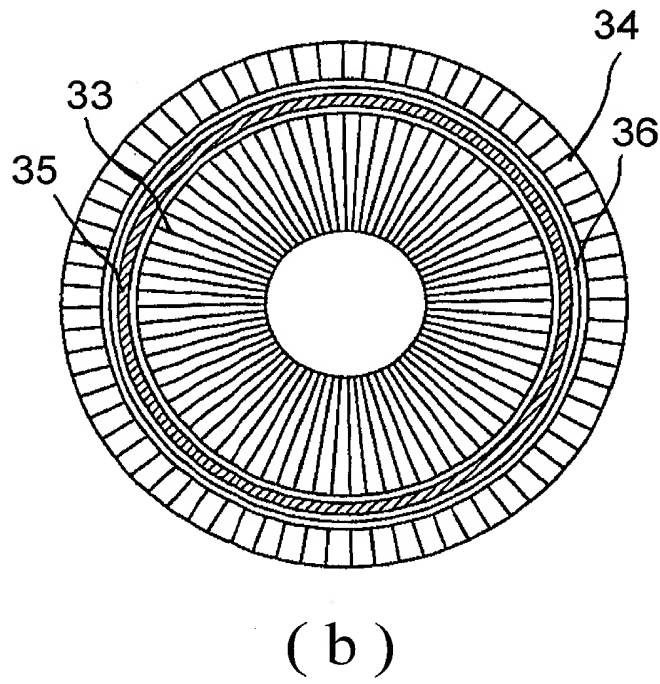
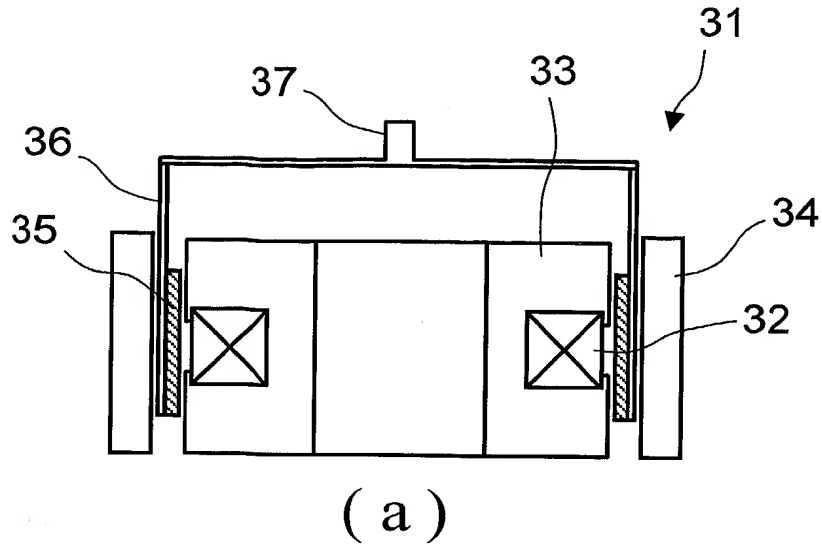


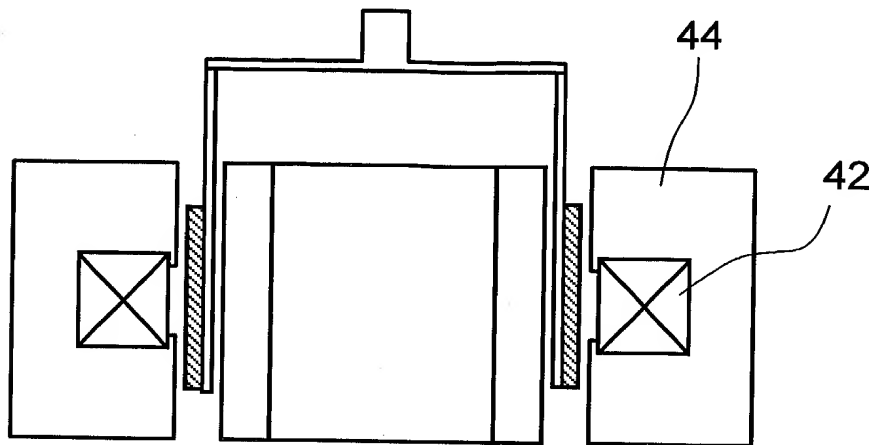
( a )



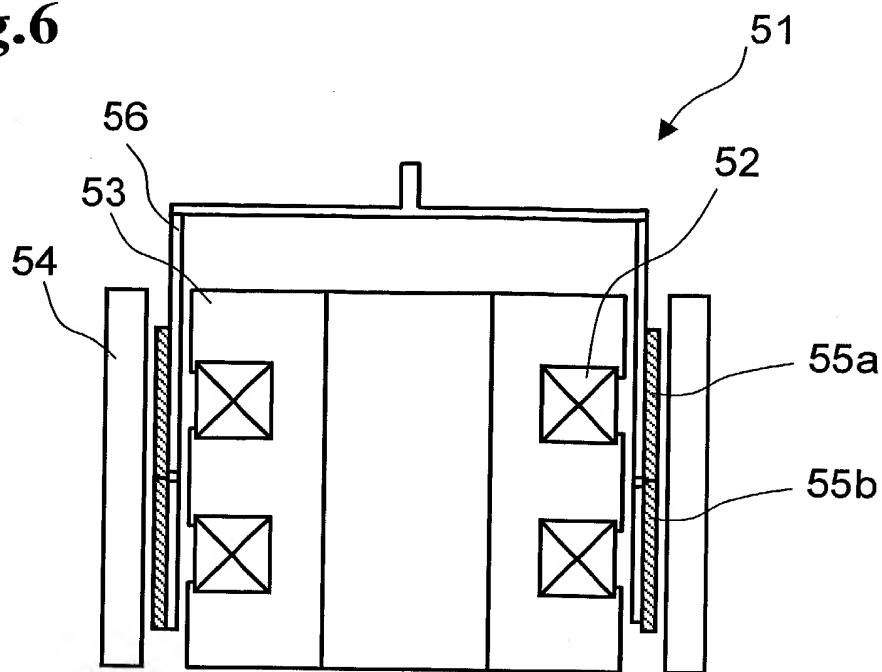
( b )

**Fig.4**

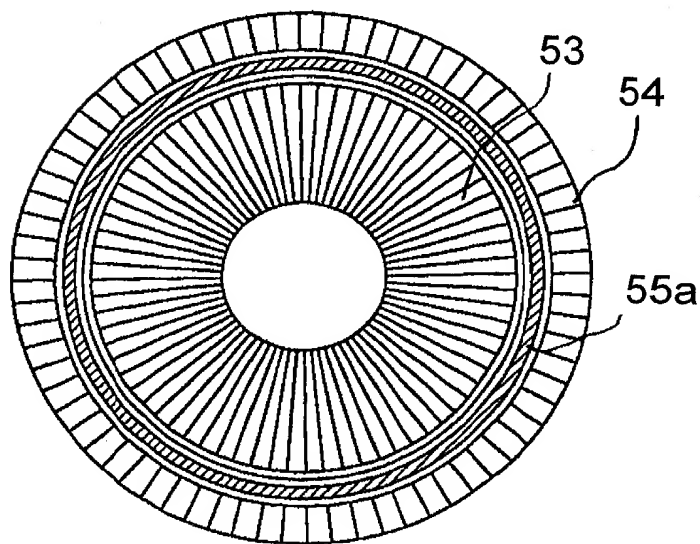


**Fig.5**

**Fig.6**

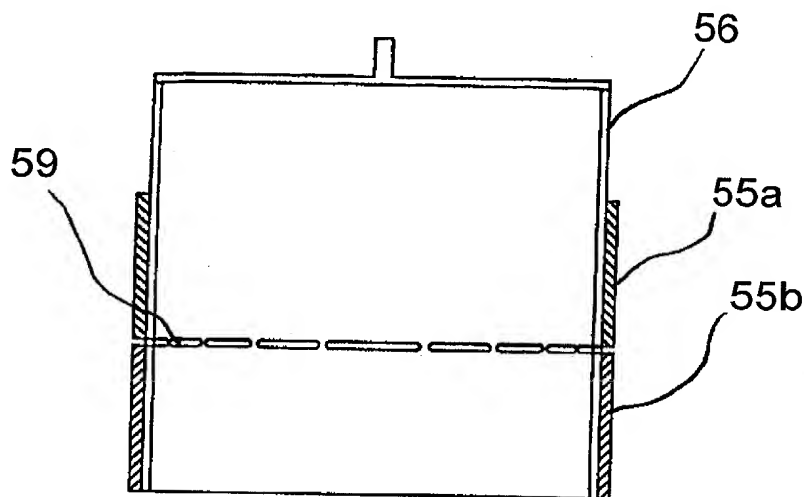
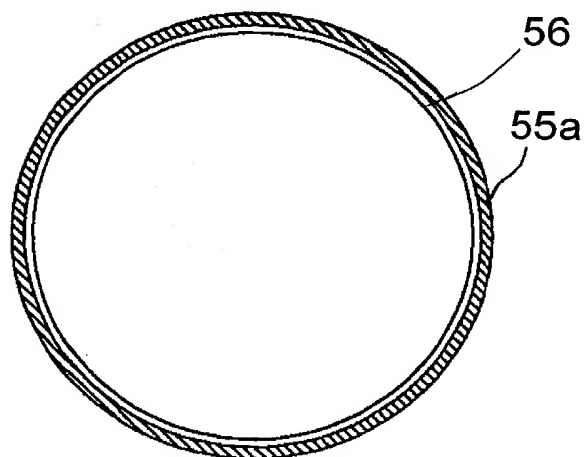


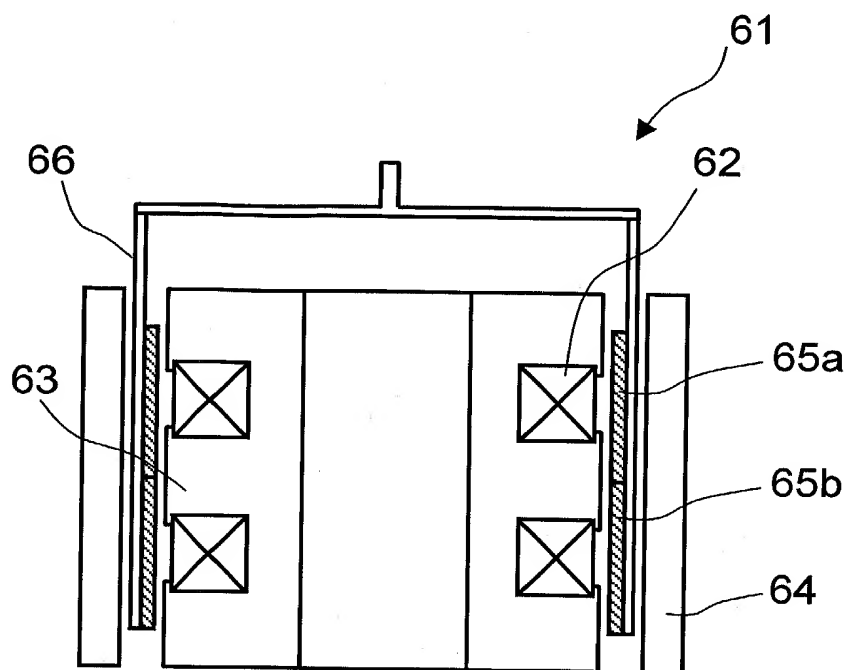
( a )



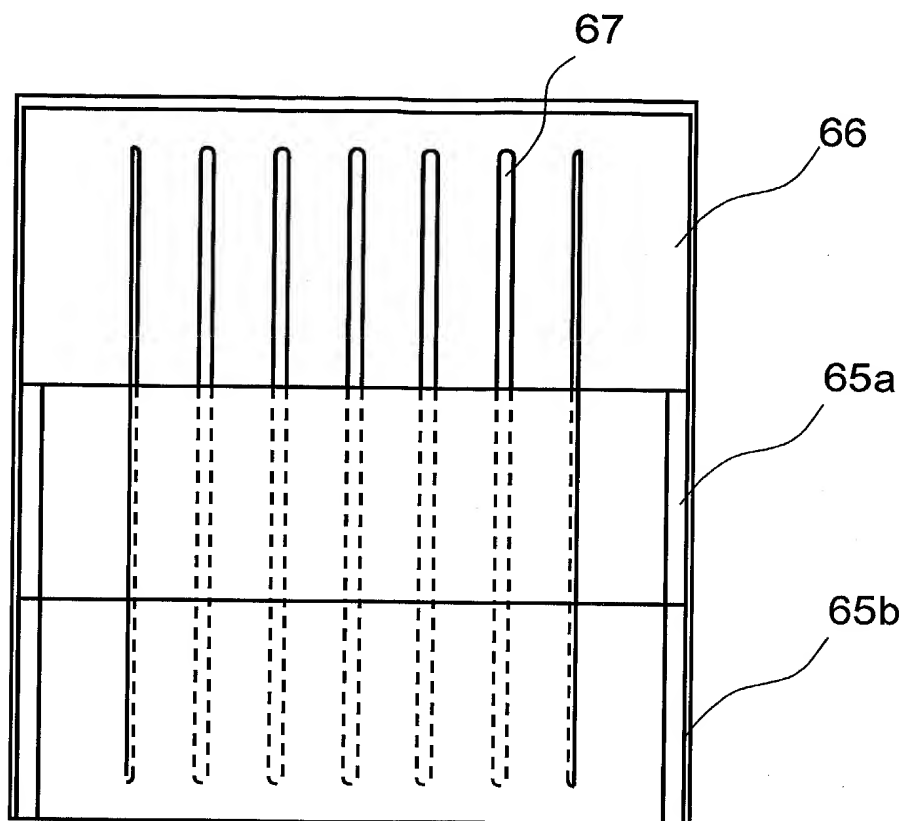
( b )

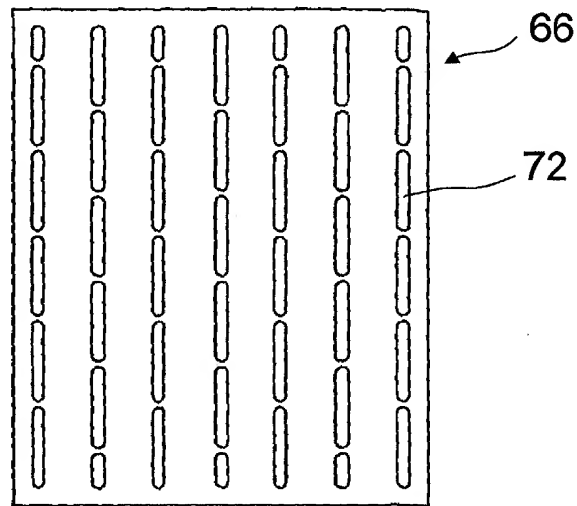
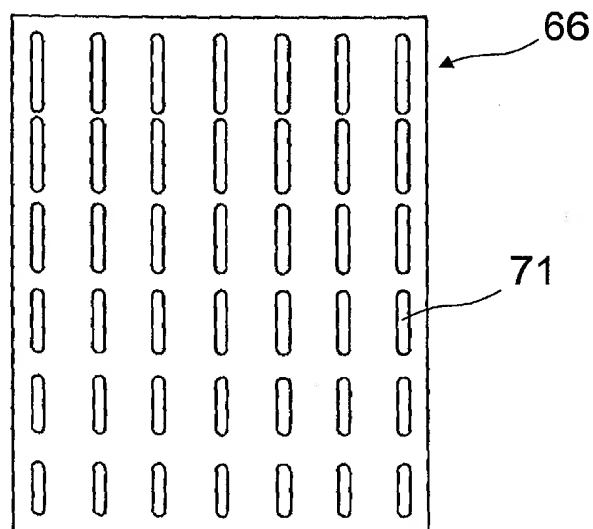
09/719663

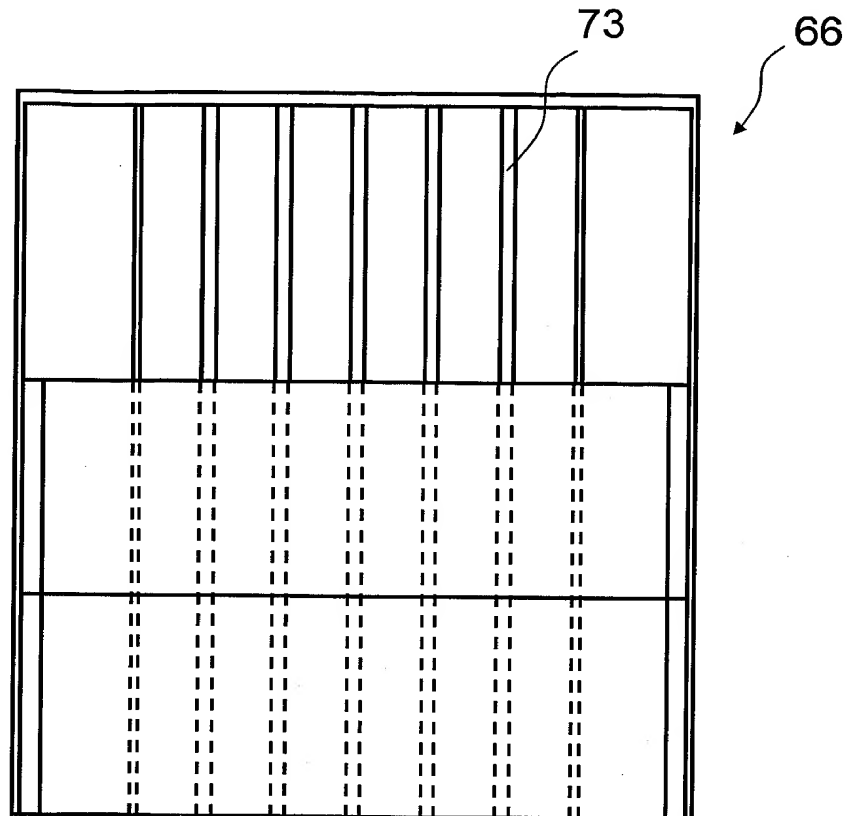
**Fig.7****( a )****( b )**

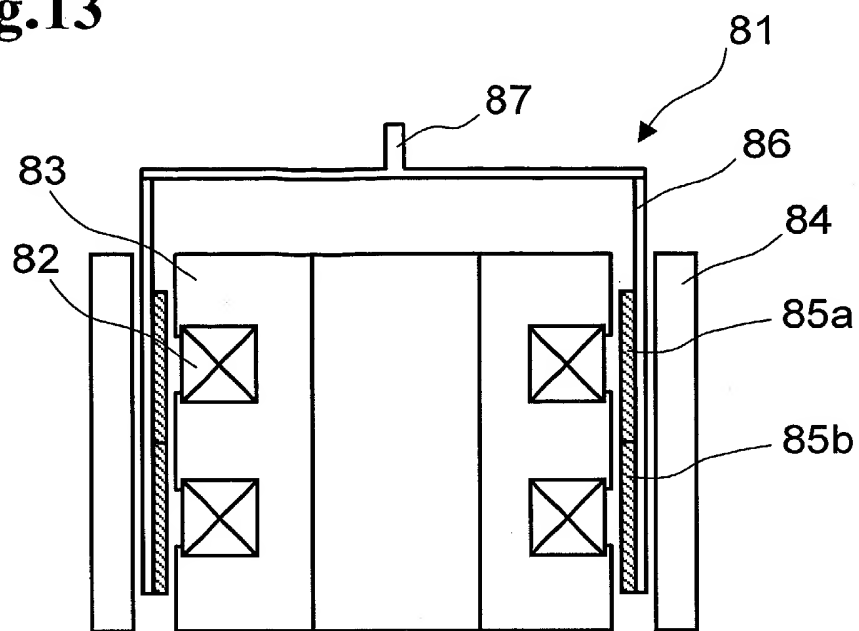
**Fig.8**



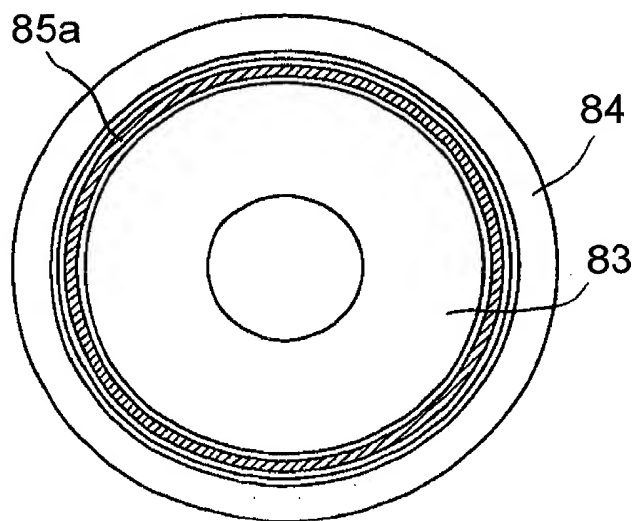
**Fig.9**

**Fig.10****Fig.11**

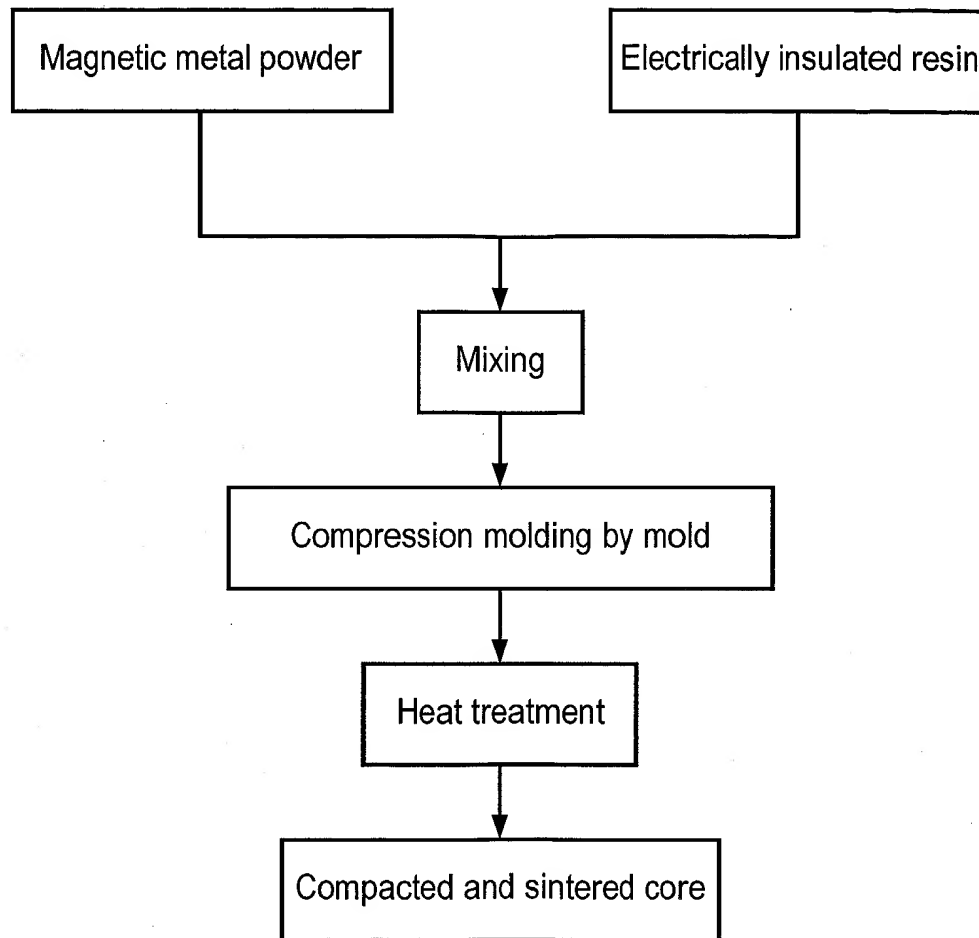
**Fig.12**

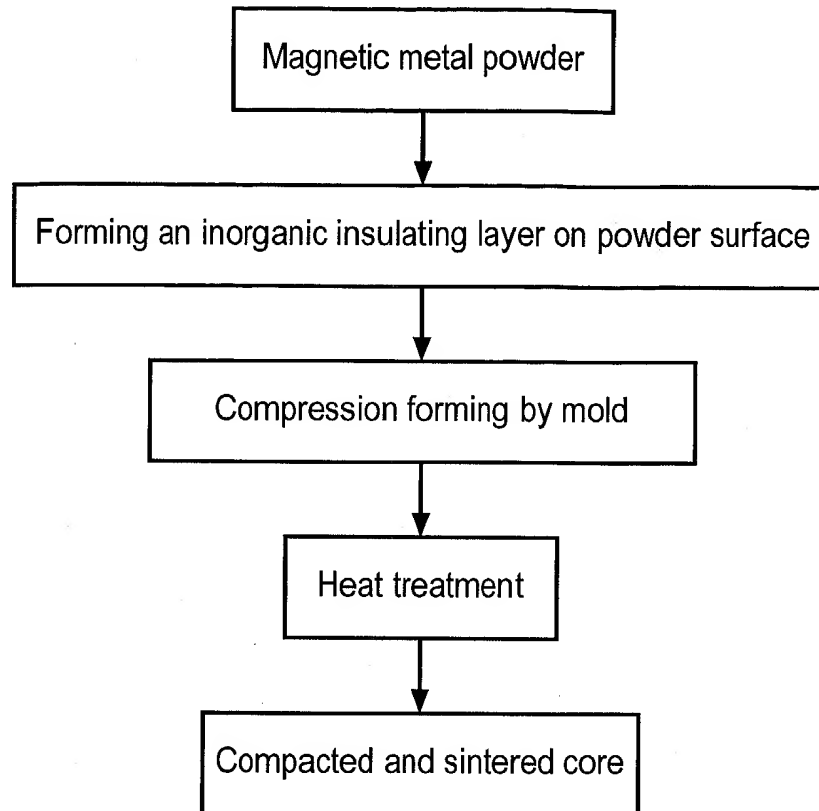
**Fig.13**

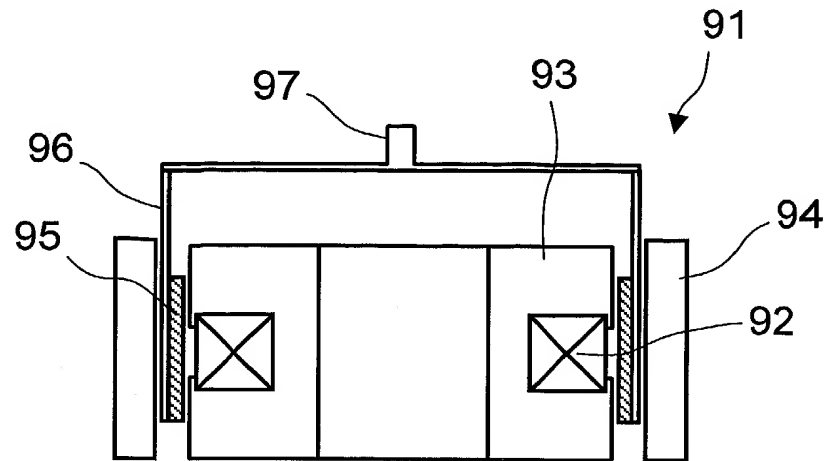
(a)



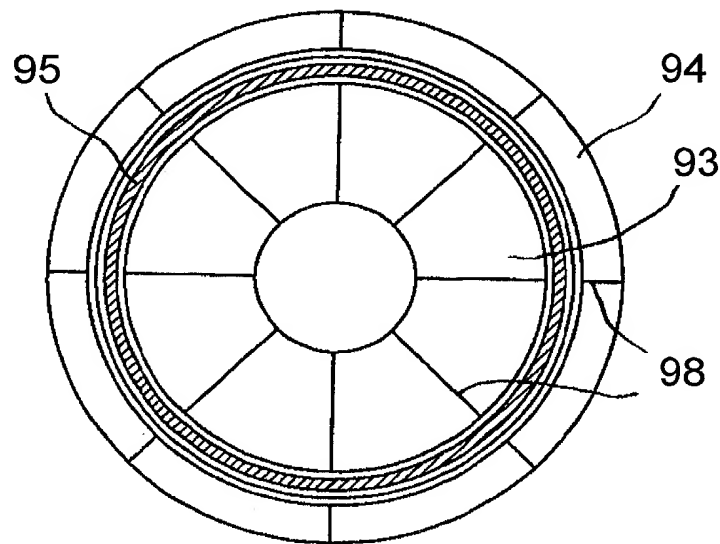
(b)

**Fig.14**

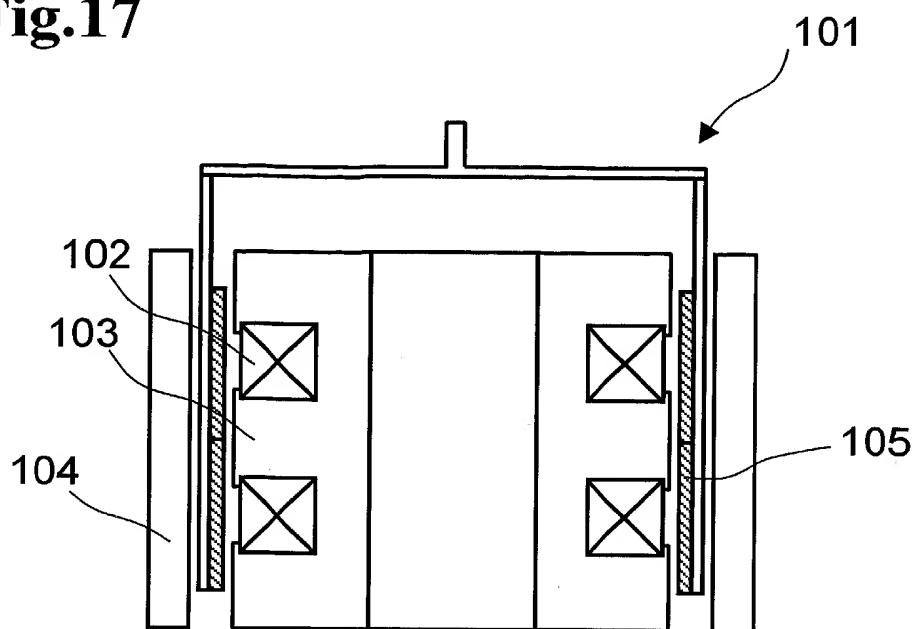
**Fig.15**

**Fig.16**

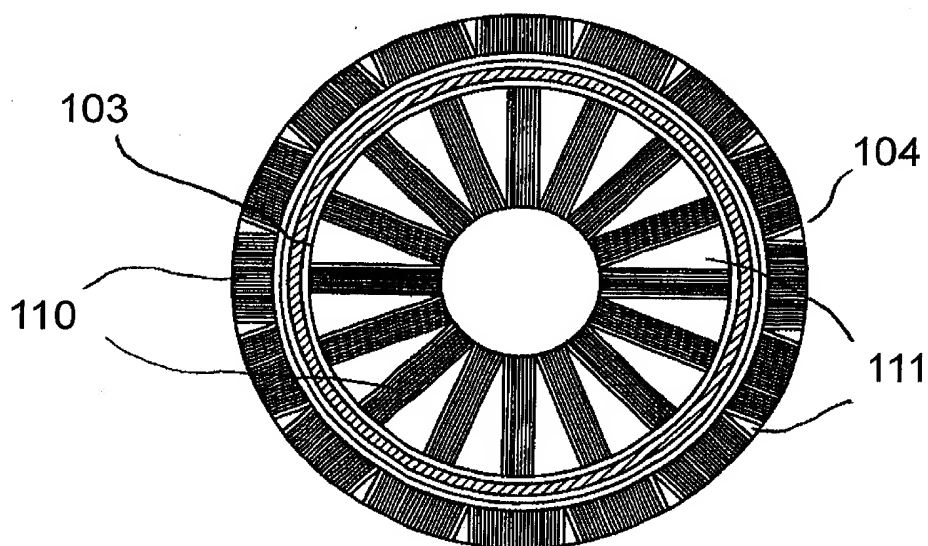
( a )



( b )

**Fig.17**

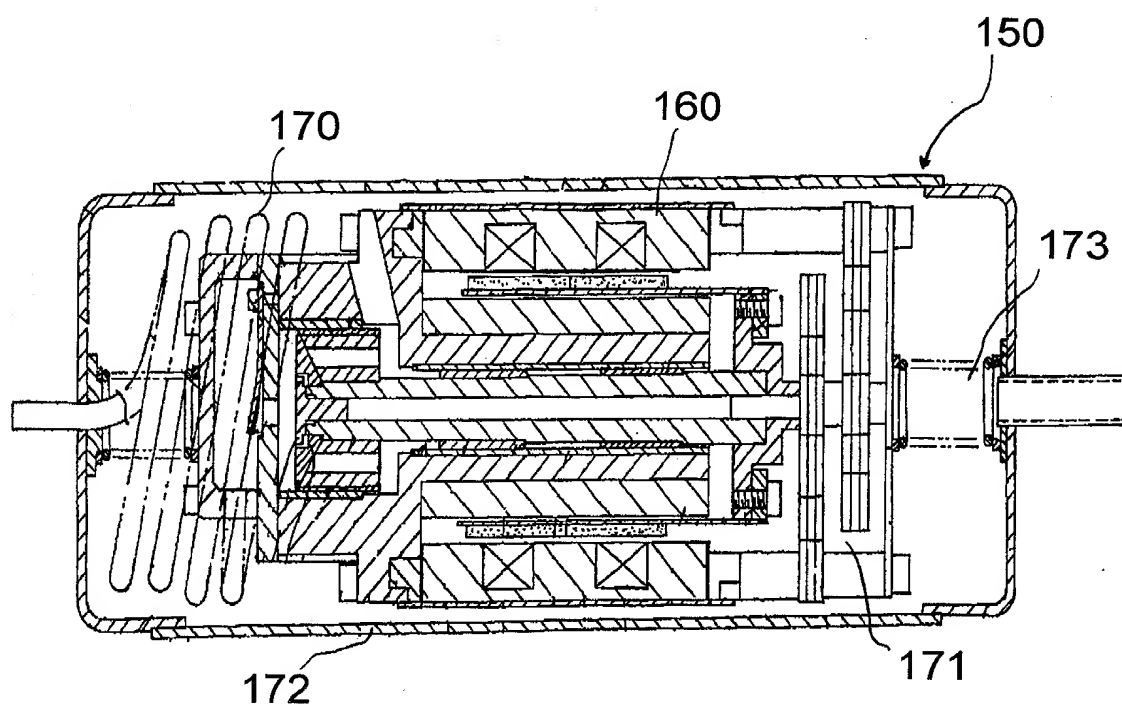
(a)

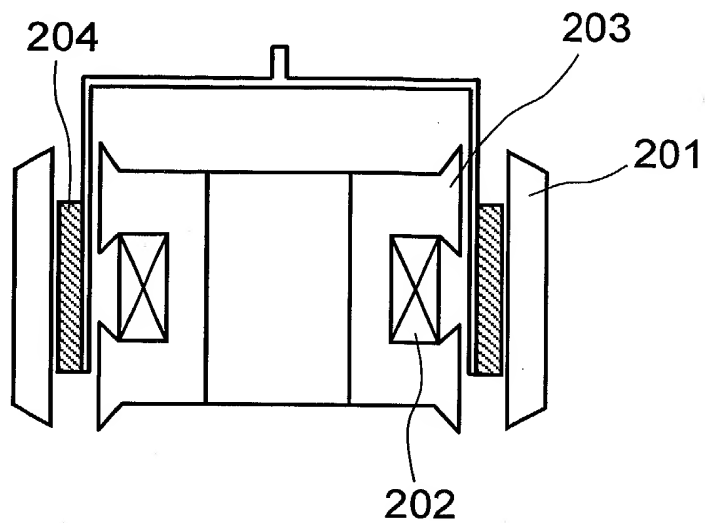


(b)



Fig.18



**Fig.19**

## Reference numerals in the drawings

- 1 Linear motor
- 2 Coil
- 3 Inner yoke
- 4 Outer yoke
- 5a,5b Permanent magnet
- 6 Vibrator

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